Comp. Biochem. Physiol. Vol. 137B, No. 4 pp. I–III, 2004

CONTENTS OF VOLUME 137

Vol. 137B, No. 1

Appreciation list

	I	In Appreciation

General papers

S. Imagawa, Y. Nakano and T. Watanabe	11	Molecular analysis of a major soluble egg protein in the scleractinian coral *Favites chinensis*
K.-J. Hu and P.-C. Leung	21	Shrimp cathepsin L encoded by an intronless gene has predominant expression in hepatopancreas, and occurs in the nucleus of oocyte
K.Z. Mahmoud, F.W. Edens, E.J. Eisen and G.B. Havenstein	35	Ascorbic acid decreases heat shock protein 70 and plasma corticosterone response in broilers (*Gallus gallus domesticus*) subjected to cyclic heat stress
E. Kulczykowska, E. Sokołowska, B. Takvam, S. Stefansson and L. Ebbesson	43	Influence of exogenous thyroxine on plasma melatonin in juvenile Atlantic salmon (*Salmo salar*)
D.R. Tocher, J. Fonseca-Madrigal, J.R. Dick, W.-K. Ng, J.G. Bell and P.J. Campbell	49	Effects of water temperature and diets containing palm oil on fatty acid desaturation and oxidation in hepatocytes and intestinal enterocytes of rainbow trout (*Oncorhynchus mykiss*)
J. Trevaskis, J.S. McMillan, K. Windmill, K. Walder and G.R. Collier	65	Identification of hypothalamic genes implicated in the development of obesity in *Psammomys obesus* using differential display PCR
K. Hamana, H. Uemiya and M. Niitsu	75	Polyamines of primitive apterygotan insects: springtails, silverfish and a bristletail
A. Boldyrev, E. Bulygina, T. Leinsoo, I. Petrushanko, S. Tsubone and H. Abe	81	Protection of neuronal cells against reactive oxygen species by carnosine and related compounds
P.E. Mozdziak, C. Giamario, J.J. Dibner and D.W. McCoy	89	A chicken mRNA similar to heterogeneous nuclear ribonucleoprotein H1
N. Vanhaelen, F. Francis and E. Haubruge	95	Purification and characterization of glutathione *S*-transferases from two syrphid flies (*Syrphus ribesii* and *Myathropa florea*)
G. Tripathi and P. Verma	101	Sex-specific metabolic changes in the annual reproductive cycle of a freshwater catfish
K. Tsunemoto, K. Osatomi, Y. Nozaki, K. Hara and T. Ishihara	107	Molecular characterization of cathepsin L from hepatopancreas of the carp *Cyprinus carpio*
D. Dziewulska-Szwajkowska, M. Zmojdzian, P. Dobryszycki, M. Kochman and A. Dzugaj	115	The interaction of FBPase with aldolase: a kinetic and fluorescence investigation on chicken muscle enzymes
Z. Liu, S. Zhang, M. Liu, Y. Wang, J. Chu and A. Xu	131	Evolution and expression of the amphioxus *AmphiHMGB* gene encoding an HMG-box protein
M. Ohkubo, K. Miyagawa, K. Osatomi, K. Hara Y. Nozaki and T. Ishihara	139	Purification and characterization of myofibril-bound serine protease from lizard fish (*Saurida undosquamis*) muscle
A. Kowalski, J. Pałyga and E. Górnicka-Michalska	151	Identification of histone H1.z components in a Muscovy duck (*Cairina moschata* L.) population
	I	Instructions to Authors

Vol. 137B, No. 2

General papers

A.S. Fahmy, S.S. Abdel-Gany, T.M. Mohamed and S.A. Mohamed	159	Esterase and lipase in camel tick *Hyalomma dromedarii* (Acari: Ixodidae) during embryogenesis
V.B. Kozhemyako, D.V. Rebrikov, S.A. Lukyanov, E.A. Bogdanova, A. Marin, A.K. Mazur, S.N. Kovalchuk, E.V. Agafonova, V.V. Sova, L.A. Elyakova and V.A. Rasskazov	169	Molecular cloning and characterization of an endo-1,3-β-D-glucanase from the mollusk *Spisula sachalinensis*

R.T. Evans, B. Fried and J. Sherma	179	Effects of diet and larval trematode parasitism on lutein and β-carotene concentrations in planorbid snails as determined by quantitative high performance reversed phase thin layer chromatography
T.R. Kiran, M.V.V. Subramanyam and S.A. Devi	187	Swim exercise training and adaptations in the antioxidant defense system of myocardium of old rats: relationship to swim intensity and duration
A.S. Srivastava, I. Oohara, T. Suzuki, S. Shenouda, S.N. Singh, D.P. Chauhan and W. Carrier	197	Purification and properties of cytosolic alanine aminotransferase from the liver of two freshwater fish, *Clarias batrachus* and *Labeo rohita*
S.-i. Teshima, M. Ishikawa, Md.S. Alam, S. Koshio and F.R. Michael	209	Supplemental effects and metabolic fate of crystalline arginine in juvenile shrimp *Marsupenaeus japonicus*
X.-D. Zhou, Y. Jin, Q.-M. Lu, D.-S. Li, S.-W. Zhu, W.-Y. Wang and Y.-L. Xiong	219	Purification, characterization and primary structure of a chymotrypsin inhibitor from *Naja atra* venom
C. dos Santos Carvalho, H.S.S. de Araujo and M.N. Fernandes	225	Hepatic metallothionein in a teleost (*Prochilodus scrofa*) exposed to copper at pH 4.5 and pH 8.0
E.E. Williams, M.J. Anderson, T.J. Miller and S.D. Smith	235	The lipid composition of hypodermal membranes from the blue crab (*Callinectes sapidus*) changes during the molt cycle and alters hypodermal calcium permeability
S. Iwaki-Egawa, C. Namiki and Y. Watanabe	247	Adenosine deaminase 2 from chicken liver: purification, characterization, and N-terminal amino acid sequence
L. Zhou and D.M. Irwin	255	Fish proglucagon genes have differing coding potential
J. Leßig, C. Gey, R. Süß, J. Schiller, H.-J. Glander and J. Arnhold	265	Analysis of the lipid composition of human and boar spermatozoa by MALDI-TOF mass spectrometry, thin layer chromatography and ^{31}P NMR spectroscopy
M. Galay-Burgos, L. Llewellyn, C.C. Mylonas, A.V.M. Canario, S. Zanuy and G.E. Sweeney	279	Analysis of the *Sox* gene family in the European sea bass (*Dicentrarchus labrax*)
Erratum		
M.W. Lorenz	285	Erratum to "Adipokinetic hormone inhibits the formation of energy stores and egg production in the cricket Gryllus bimaculatus"
	I	Instructions to Authors
	V	Announcement

Vol. 137B, No. 3

General papers		
E. von Elert, M.K. Agrawal, C. Gebauer, H. Jaensch, U. Bauer and A. Zitt	287	Protease activity in gut of *Daphnia magna*: evidence for trypsin and chymotrypsin enzymes
E. Borges, G. de Paula Cognato, F.C. Vuaden, M.R. Bogo, M. da Graça Fauth, C.D. Bonan and R.D. Dias	297	Nucleotidase activities in membrane preparations of nervous ganglia and digestive gland of the snail *Helix aspersa*
X. Zhang and G.B. Carey	309	Plasma membrane-bound cyclic AMP phosphodiesterase activity in 3T3-L1 adipocytes
J. Geyer, B. Döring, K. Failing and E. Petzinger	317	Molecular cloning and functional characterization of the bovine (*Bos taurus*) organic anion transporting polypeptide Oatp1a2 (Slco1a2)
L.M. Lundstedt, J.F.B. Melo and G. Moraes	329	Digestive enzymes and metabolic profile of *Pseudoplatystoma corruscans* (Teleostei: Siluriformes) in response to diet composition
P.W. Madden, M.J. Babcock, M.E. Vayda and R.E. Cashon	339	Structural and kinetic characterization of myoglobins from eurythermal and stenothermal fish species
F.W. Goetz, B. Norberg, L.A.R. McCauley and D.B. Iliev	349	Characterization of the cod (*Gadus morhua*) steroidogenic acute regulatory protein (StAR) sheds light on StAR gene structure in fish
J.B. Lødemel, H.K. Mæhre, J.-O. Winberg and R.L. Oslen	361	Tissue distribution, inhibition and activation of gelatinolytic activities in Atlantic cod (*Gadus morhua*)
T. Komai, C. Kawabata, M. Amano, B.R. Lee and E. Ichishima	371	Todarepsin, a new cathepsin D from hepatopancreas of Japanese common squid (*Todarodes pacificus*)
M. Machín, M.F. Simoyi, K.P. Blemings and H. Klandorf	381	Increased dietary protein elevates plasma uric acid and is associated with decreased oxidative stress in rapidly-growing broilers
V. Tornero, A. Borrell, J. Forcada, E. Pubill and A. Aguilar	389	Retinoid and lipid patterns in the blubber of common dolphins (*Delphinus delphis*): implications for monitoring vitamin A status

J.M. Stewart, J.A. Blakely, P.A. Karpowicz E. Kalanxhi, B.J. Thatcher and B.M. Martin	399	Unusually weak oxygen binding, physical properties, partial sequence, autoxidation rate and a potential phosphorylation site of beluga whale (*Delphinapterus leucas*) myoglobin
T.J. Nevalainen, R.J. Quinn and J.N.A. Hooper	411	Phospholipase A2 in Porifera
	I	Instructions to Authors
	V	Announcement

Vol. 137B, No. 4

General papers

L. Deng, W.M. Zhang, H.R. Lin and C.H.K. Cheng	421	Effects of food deprivation on expression of growth hormone receptor and proximate composition in liver of black seabream *Acanthopagrus schlegeli*
S. Assaf, S. Lagarrigue, S. Daval, M. Sansom, B. Leclercq, J. Michel, F. Pitel, M. Alizadeh, A. Vignal and M. Douaire	433	Genetic linkage and expression analysis of *SREBP* and lipogenic genes in fat and lean chicken
F. Shishikura	443	The complete amino acid sequences of four globins from the land leech *Haemadipsa zeylanica* var. *japonica*
J. Fang, C. Kato, T. Sato, O. Chan and D. McKay	455	Biosynthesis and dietary uptake of polyunsaturated fatty acids by piezophilic bacteria
F.L. Consoli and S.B. Vinson	463	Host regulation and the embryonic development of the endoparasitoid *Toxoneuron nigriceps* (Hymenoptera: Braconidae)
S. Ballance, M. Howard, K.N. White, C.R. McCrohan, D.J. Thornton and J.K. Sheehan	475	Partial characterisation of high-molecular weight glycoconjugates in the trial mucus of the freshwater pond snail *Lymnaea stagnalis*
A.G. Jeffs, P.D. Nichols, B.D. Mooney, K.L. Phillips and C.F. Phleger	487	Identifying potential prey of the pelagic larvae of the spiny lobster *Jasus edwardsii* using signature lipids
M. Fujinoki, T. Kawamura, T. Toda, H. Ohtake, T. Ishimoda-Takagi, N. Shimizu, S. Yamaoka and M. Okuno	509	Identification of 36 kDa phosphoprotein in fibrous sheath of hamster spermatozoa
	I	Contents of Volume
	V	Subject Index
	VII	Author Index
	IX	Instructions to Authors